Stat and Data Analysis Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CW 3.2A

Speeds for cars on a local highway can be described by a normal model with a mean of 68 mph and a standard deviation of 3.5 mph.

1. Draw and label the model
2. What percent of cars travel between 72 mph and 75 mph?
3. What percent of cars travel faster than 73 mph?
4. What percent of cars travel slower than 62 mph?
5. What percent of cars travel faster than 60 mph?
6. What percent of cars travel slower than 78 mph?
7. What percent of cars travel between 57 mph and 65 mph?
8. What percent of cars travel between 72 mph and 64 mph?
9. What percent of cars travel between 60 mph and 68 mph?
10. What percent of cars travel between 66 mph and 79 mph?
11. What is the z-score for a car traveling 80 mph? Does this seem likely?